Where Are We Today?

• As an Army
  • Continuing to draw-down contingency operations...
  • ...while still supporting Soldiers engaged in ~150 countries
  • Facing continued uncertainty in budget and force structure

• Today’s TWV Fleet
  • Benefited from substantial investment over the past decade, meaning relatively low average fleet ages today
  • Carries more protection than predecessors, but often at the cost of mobility performance

<table>
<thead>
<tr>
<th>Fleet</th>
<th>Avg Age</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light</td>
<td>6-7 yrs</td>
<td>~120,000</td>
</tr>
<tr>
<td>Medium</td>
<td>9 yrs</td>
<td>~80,000</td>
</tr>
<tr>
<td>Heavy</td>
<td>7-8 yrs</td>
<td>~40,000</td>
</tr>
<tr>
<td>MRAP</td>
<td>5 yrs</td>
<td>8,585</td>
</tr>
</tbody>
</table>
Where Are We Going?

- A leaner, more capable, more expeditionary force
- Considering more deliberate investment choices
  - Best align requirements, S&T advances, and programs
- Shaping the Force of 2025 and Beyond
  - Joint Light Tactical Vehicle
  - Ground Mobility Vehicle
  - Light Reconnaissance Vehicle
  - Autonomy-Enabled Capabilities
  - Network-enabled capabilities

Army 2025 Portfolio Implications:
Unburden the Soldier. Shrink the Footprint. More “Tooth” with the same or a smaller “Tail.”
What Keeps Me Up At Night?

• Requirements
  • Clear?
  • Traceable to strategy?
  • Based on mature technology?
  • Affordable?
  • Military-specific vs commercial solutions?
  • Operational terms?

• Stakeholder involvement

• Cyber and Information Awareness

• Need for a fleet-wide perspective

• Next steps in key program areas
How Can You Help?

- How can we better view and manage equipment fleets?
- How do we invest now to reduce sustainment costs later?
- What technologies are ready now?
- Provide clear and open feedback on Technological Maturity, Requirement Achievability, Cost
PEO CS&CSS Portfolio

Expeditionary Energy & Sustainment Systems (E2S2)

**Small Power Sources**
- 2kW Military Tactical Generator
- 3kW Tactical Quiet Generator (TQG)
- Small Tactical Electrical Power (STEP)
- 60K BTUH IECU
- 9K, 18K, 36K IECU
- 120K IECU

**Medium Power Sources**
- 5, 10, 15, 30, 60kW Advanced Medium Mobile Power Sources (AMMPS)
- 5-60kW Tactical Quiet Generators (TQG)
- Power Units/Power Plants

**Large Power Sources**
- 100/200kW Tactical Quiet Generators (TQG)
- 100/200kW Large Advanced Power Sources (LAMPS)
- Power Distribution Illumination Electrical (PDISE)
- Intelligent Power Management

**Battery Power Sources**
- Standardization of Batteries

**Force Sustainment Systems**
- Cargo Airdrop Systems
- Combat Feeding Systems
- Field Service Systems
- Force Provider & Base Camps
- Shelter Systems & Heaters
- Mortuary Affairs Equipment

Force Projection Equipment

**Bridging**
- Bridges / Bridge Erection Boat
- Bridge Transporters
- M9 Armored Combat Earthmover/Assault Breacher

**Combat Engineer/Material Handling Equipment**
- Container Handling Equipment
- Loaders
- Cranes
- Dozers
- Excavators

**Petroleum & Water Systems**
- Fueling Systems
- Water Systems

**Sets, Kits, Outfits & Tools**
- Sets, Kits & Outfits
- Engineer Combat Support Eq
- Diving Equipment
- Shelter Mounted Sets, Kits & Outfits
- Shop Set Equipment

**Test, Measurement, & Diagnostic Equipment**
- Integrated Family of Test Equipment (IFTE) At Platform Test Systems
- Common Embedded Diag.
- Calibration Sets (CALSETS)
- IFTE Off Platform Automatic Test Systems
- General Purpose Electronic Test Equipment (GPETE)
- Maintenance Support Device (MSD-V3)
- Next Generation Automatic Test Station (NGATS)

**Appliqué & Large Unmanned Ground Systems**
- Husky Mounted Detection System (HMDs)
- Route Clearance & Interrogation System (RCIS)
- M160 Robotic Light Mine Flail

**Unmanned Ground Vehicles**
- Small Unmanned Ground Vehicle (SUGV) 310
- Route Reconnaissance and Clearance (R2C)
- Man Transportable Robotic System (MTRS)
- Common Robotic System-Individual (CRS-I)
## Mine Resistant Ambush Protected Vehicles

- MATV UIK
- MaxxPro Dash ISS
- MaxxPro LWB Ambulance

- Buffalo
- Mine Clearance Vehicle (MCV)
- Explosive Hazard Pre-detonation
- Husky (Vehicle Mounted Mine Detector [VMMD])
- MMPV Type II (RG31)
- MMPV Type I (Panther)

## Assured Mobility Systems

## Transportation Systems

### Heavy Tactical Vehicles
- Heavy Expanded Mobility Tactical Truck (HEMTT)
- M915 Family of Vehicles & Trailers
- Heavy Equipment Transport (HETS)
- Container Handling Unit (CHU)
- Palletized Load System (PLS)

### Medium Tactical Vehicles
- Family of Medium Tactical Vehicles (FMTV)
- Tractor Trailer

### Light Tactical Vehicles
- HMMWV Family of Vehicles
- UAH Safety Enhancements
- HEAT Trainer

### Allied Tactical Vehicles
- Mobile Strike Force Vehicle (MSFV)
- Light Tactical Vehicles (LTV)
- Medium Tactical Vehicles (MTV)
- Sport-Utility Vehicles (SUV)
- Buses

### Army Watercraft Systems
- 115 Ton Barge Derrick (BD)
- Landing Craft Mechanized (LCM 8)
- Mod II
- Landing Craft Utility (LCU) 2000
- Tugs (Large [LT] & Small [ST])
- Logistics Support Vessel (LSV)
- Roll-on/Roll-off Discharge Facility (RRDF)
- Floating Causeway (FC)
- Modular Warping Tug (MWT)
- Causeway Ferry (CF)
- Barge Fueler (BG)